

## ARCHITECTURE FOR AN EXTENSIBLE FACTORY SYSTEM

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### ABSTRACT OF THE DISCLOSURE

An architecture for integrating data between a plurality of software applications in a factory environment comprises a factory system and a domain application. The factory system comprises a domain object superclass and at least two first-level subclasses of the domain object superclass. An instantiation of one of the first-level subclasses corresponds to a domain object, which represents an item in a factory. The factory system also includes a service, which provides an operation related to the domain object. The service comprises at least one component, where each component is operable to perform the operation related to the domain object. The architecture also includes a domain application, which implements a component of the service of the factory system to perform the operation related to the domain object. The architecture can optionally include a system manager for managing hardware and software in the factory.